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ABSTRACT

This report presents information on the amount of science and engineering (S&E) research space existing at U.S. colleges, universities, and nonprofit biomedical research institutions based on research data collected biennially through the National Science Foundation. Data are also provided on the adequacy of this research space to meet current program commitments. Finally, data on S&E and non-S&E instructional space at colleges and universities are presented. Unlike previous cycles of this survey, the 2001 survey consisted of only the first two questions of the prior surveys. The 2001 survey was sent to research-performing colleges and universities in the U.S. and to U.S. biomedical research institutions that received NIH funding in the fiscal year 2001. Research-performing academic institutions are defined as colleges and universities reporting more the $150,000 in research and development (R&D) expenditures and Historically Black Colleges and Universities with any R&D expenditures. Each academic institution's level of R&D expenditures is determined by the 2000 NSF Survey of Research and Development Expenditures at Universities and Colleges. Biomedical Research institutions are independent research hospitals and nonprofit biomedical research organizations. Chapters include: (1) "Technical Notes"; (2) "Detailed Statistical Tables"; (3) "List of Institutions"; and (4) "Survey Instrument and Materials." (AA)

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Scientific and Engineering Research Facilities

2001

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Detailed Statistical Tables

Division of Science Resources Statistics
Directorate for Social, Behavioral, and Economic Sciences
National Science Foundation

January 2002

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Scientific and Engineering Research Facilities

2001

Detailed Statistical Tables

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January 2002

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Contents

Section		*Page*
General Notes		vii
A.	Technical Notes	1
B.	Detailed Statistical Tables	7
C.	Lists of Institutions	23
D.	Survey Instrument and Materials	49

6

General Notes

The data in these tables are collected biennially through the National Science Foundation's (NSF's) Congressionally-mandated Survey of Scientific and Engineering Research Facilities. However, unlike previous cycles of the survey, the 2001 survey consisted of only the first two questions of the prior surveys.

The 2001 survey was sent to research-performing colleges and universities in the U.S. and to U.S. biomedical research institutions that received NIH funding in fiscal year 2001. Research-performing academic institutions are defined as colleges and universities reporting more than $150,000 in research and development (R&D) expenditures and Historically Black Colleges and Universities with any R&D expenditures. Each academic institution's level of R&D expenditures is determined by the 2000 NSF Survey of Research and Development Expenditures at Universities and Colleges. Biomedical research institutions are independent research hospitals and nonprofit biomedical research organizations.

These tables provide data on the amount of science and engineering (S&E) research space existing at U.S. colleges, universities and nonprofit biomedical research institutions. Data are also provided on the adequacy of this research space to meet current program commitments. Finally, data on S&E and non-S&E instructional space at colleges and universities are presented.

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Section A.
Technical Notes

Section A. Technical Notes

Scope of survey

The data presented in these tables are collected biennially through the National Science Foundation's (NSF) congressionally mandated Survey of Scientific and Engineering Research Facilities (Facilities survey). The survey originated in 1986 in response to Congress' concern about the state of research facilities at the Nation's colleges and universities. NSF's 1984 reauthorization legislation, P.L. 99-159, mandated a data collection and analytic system to identify and assess the research facilities needs of academic institutions. The legislation stated:

> The National Science Foundation is authorized to design, establish, and maintain a data collection and analysis capability in the Foundation for the purpose of identifying and assessing the research facilities needs of universities and colleges. The needs of universities by major field of science and engineering, for construction and modernization of research laboratories, including fixed equipment and major research equipment, shall be documented. University expenditures for the construction and modernization of research facilities, the sources of funds, and other appropriate data shall be collected and analyzed. The Foundation, in conjunction with other appropriate Federal agencies, shall report the results to Congress. (42 U.S.C. 1886)

The National Institutes of Health (NIH) have cosponsored all cycles of the survey. Each survey cycle, except for 2001, NIH has added a limited set of questions particularly focused on animal research facilities. The 2001 survey cycle used an abbreviated form of the previous surveys, which only included prior questions one and two.

Population

The survey is sent to research-performing colleges and universities in the United States. Research-performing colleges and universities are defined as meeting one of three criteria: 1) offer doctorates in S&E fields; 2) report at least $150,000 in research and development (R&D) expenditures for fiscal year 2000; or 3) are an Historically Black College or University (HBCU) with any R&D expenditures. The population of academic institutions for this survey is derived from the 2000 NSF Survey of Research and Development Expenditures at Universities and Colleges. The six uniformed service academies are excluded from the population.

The academic survey population included 580 institutions. These institutions did not in all cases represent separate colleges and universities. Some institutions consisted of several, separate entities each of which were sent separate surveys. For example, the Louisiana State University Agricultural and Mechanical College and the Louisiana State University Health Science Center were sent separate surveys. In determining the number of surveys to send to an institution, the Survey of Scientific and Engineering Research Facilities employed the same procedures as the NSF Survey of Research and Development Expenditures at Universities and Colleges. In the final population of 580, 14 entities represented five colleges or universities. As a consequence, the total population presented in Table 4 is 571.

The survey is also sent to nonprofit biomedical research organizations. Biomedical research organizations are part of the eligible population if they are a research hospital or a nonprofit biomedical research organization. The population of biomedical research and organizations is derived from a 2000 list of NIH grantees receiving at least $150,000 in funding from NIH.

Data Definitions

Research is all science and engineering R&D activities that is budgeted and accounted for. Research can be funded by the institution itself, the Federal Government, state governments, foundations, corporations or other sources.

Research space includes: research laboratories; controlled environment space such as clean or white rooms; technical support space such as carpentry and machine shops; space for laboratory animals, such as animal production colonies, holding rooms, isolation and germ-free rooms; faculty or staff offices to the extent that they are used for research; department libraries, to the extent that they are used for research; fixed equipment, such as fume hoods and benches; single pieces of non-fixed equipment each costing at least $1 million, such as MRI equipment; and leased space. It does not include: space that is designated as federally funded research and development centers (FFRDCs); space used by faculty

but not administered by the institution such as research space at non-university hospitals; and space administered by the institution but is leased to others for their use.

Biomedical research space is space for research in the biological sciences in medical schools, biological sciences not in medical schools, medical sciences in medical schools and medical sciences not in medical schools.

Net assignable square feet (NASF) is the sum of all areas (in square feet) on all floors of a building assigned to, or available to be assigned to, an occupant for specific use, such as instruction or research. NASF is measured from the inside faces of walls.

Research program commitments are all research activities of an institution that are budgeted, approved, and funded. It includes current faculty and staff or those to whom offers have been made; grants awarded, whether or not research has actually begun; and, programs which have been approved.

Changes In Reporting

Since these data were first collected in 1986, several changes have been made to the population, the sample, and some of the survey questions. Some of the changes include:

- Prior to the 1999 cycle of the survey, research-performing academic institutions with at least $50,000 in R&D expenditures (other than HBCUs) were included in the survey population. Starting with the 1999 survey cycle, the level of R&D expenditures was increased to at least $150,000 (except HBCUs). For biomedical organizations, the minimum level in NIH funding received, also increased from at least $50,000 to at least $150,000 in funding in the 1999 survey cycle.

- Beginning in 1999, a census of eligible institutions is surveyed. In prior years, eligible institutions were sampled using a stratified sampling design.

- For the 2001 cycle of the survey, only questions one and two of the prior surveys are asked.

Analytic Definitions

Several analytic subgroups are presented in the table data. These subgroups are defined as follows.

Regions

In some tables, states are divided into the four U.S. regions defined by the U.S. Census Bureau. These regions are:

- Northeast: ME, NH, VT, MA, RI, CT, NY, NJ, PA.
- Midwest: OH, IN, IL, MI, WI, MN, IA, MO, ND, SD, NE, KS.
- South: DE, MD, DC, VA, WV, NC, SC, GA, FL, KY, TN, AL, MS, AR, LA, OK, TX.
- West: MT, ID, WY, CO, NM, AZ, UT, NV, WA, OR, CA, AK, HI.

EPSCoR and IDeA

In addition to the regional groupings, in some tables, states are grouped according to their eligibility for NSF or NIH funding. States are eligible for the NSF Experimental Program to Stimulate Competitive Research (EPSCoR), if they have historically received less Federal R&D funding than other states. The purpose of the program is to increase the R&D funding competitiveness of these states by assisting in the development and utilization of science and technology resources located at the major universities.

NIH sponsors the Institutional Development Award (IDeA) program. This program was established in 1993 in order to enhance the competitiveness for research funding of institutions located in states with historically low aggregate success rates for NIH grant applications. The goal is to broaden the geographic distribution of NIH funding for health research.

The states currently eligible for these programs are as follows:

- EPSCoR: AL, AK, AR, ID, KS, KY, LA, ME, MS, MT, NE, NV, ND, OK, SC, SD, VT, WV, WY and Puerto Rico.
- IDeA: AK, AR, DE, HI, ID, KS, KY, LA, ME, MS, MT, NH, NM, NE, NV, ND, OK, RI, SC, SD, VT, WV, WY and Puerto Rico.

Minority Designations

The survey included subgroups to identify minority-serving institutions, including Historically Black Colleges and Universities (HBCUs) and Hispanic-Serving institutions (HSIs). According to the Department of Education, HBCUs are postsecondary institutions of higher education

founded before 1964 whose educational mission has historically been the education of black Americans. The HBCU list (updated August 1999) was provided by the White House Initiative on HBCUs. The original Survey of Scientific and Engineering Research Facilities included 29 HBCUs. These institutions have been identified separately for trend analysis.

Hispanic-serving institutions (HSIs) are defined as any accredited and degree-granting institution of higher education with 25 percent or greater total Hispanic undergraduate full-time equivalent enrollment. An institution may be both an HBCU and an HSI. A list maintained by the Department of Education (revised March 27, 2000) is the source of information on this group of schools. See Section C for a List of Institutions surveyed.

Other Definitions

Two other analytic subgroups are used in the tables. **Field leaders** are defined as the 10 institutions with the most research space in a given field. **Institutional control** is defined as private or public institutions.

Data Considerations

Users should be aware of the several definitions associated with medical schools. Institutions are defined as having space 'in medical schools' if respondents indicated that they had space in either the biological sciences in medical schools or the medical sciences in medical schools, regardless of whether the medical schools are accredited. For the rows entitled 'Inside all AAMC medical schools,' data are only included for academic institutions with medical schools accredited by the Association of American Medical Colleges (see Section C). Both sets of data include stand-alone medical schools. In table data from prior survey cycles, the former definition of medical schools is used for all tables.

Response Rate

The 2001 survey was mailed to academic institutions in April of 2001 and data collection ended on July 24, 2001.

Of the 580 eligible academic institutions, 90 percent returned surveys. Of the 245 eligible biomedical institutions, 88 percent returned surveys.

Imputation

The 2001 NSF Research Facilities Survey attempted to obtain responses from all the institutions in the defined population. Consequently, one of the usual sources of survey error, sampling error, is not of concern in this survey. However, as is the case in almost all surveys, nonresponse error is of concern. In the 2001 NSF Research Facilities Survey, 90 percent of all eligible institutions responded.

To estimate national totals, data were imputed for the individual institutions which did not respond with any data for the 2001 survey cycle. Data were imputed using a model-based approach for the following academic institution variables: total amount of S&E research space; total amount of S&E instructional space; total amount of non-S&E instructional space; amount of S&E research space in individual fields of science; and amount of S&E instructional space by individual fields of science.

Data were not imputed for academic institutions for the following variables: total amount S&E research space leased; total amount of S&E research space needed; whether S&E research space is leased (yes or no) for individual fields of science; whether S&E research space is adequate (yes or no) by individual fields of science; and, amount of S&E research space needed by individual field of science.

Data were imputed separately for academic institutions and for biomedical institutions. For biomedical research institutions, the following variables were imputed: total amount of S&E research space in the biological sciences and the medical sciences and the amount of S&E research space in individual fields of biological and medical sciences. Data were not imputed for the following variables: total amount S&E research space leased in the biological and medical sciences; total amount of S&E research space needed in the biological and medical sciences; whether S&E research space is leased (yes or no) for the biological and medical sciences; whether S&E research space is adequate (yes or no) for the biological and medical sciences; and, the amount of S&E research space needed by the individual fields of biological and medical sciences.

Approximately 90 percent of the institutions responded to the survey. Therefore, except for the dichotomous variable on the adequacy of research space, the national estimates provided for the unimputed variables are likely to underestimate the true values for these variables. The true values for the adequacy of research space is uncertain but it is not believed to be greatly different from the estimated values.

Several regression models were used to impute values for nonrespondent institutions. If a 2001 nonrespondent had responded in 1999, the 1999 data were used as the 2001 data. Otherwise, the following models were used:

For academic nonrespondents:

- Total S&E research space for 2001 = 37,553+ 3.676*total R&D expenditures in FY 2000 + 14.714*total R&D expenditures for the agricultural sciences in FY 2000.
- Total S&E instructional space for 2001. The ratio of total instructional space to total S&E research space was determined for respondents. This ratio was then applied to impute total instructional space for each nonresponding institution.
- Total non-S&E instructional space for 2001. The ratio of total non-S&E instructional space to total instructional space was determined for the respondents. This ratio was then applied to impute total non-S&E instructional space values for each nonresponding institution.
- Amount of S&E research space in individual fields of science in 2001. The distribution of total S&E research space across all 13 research fields was determined using the respondent data. For the nonrespondents, their total S&E research space was then distributed across all 13 research fields.
- Amount of S&E instructional space for individual fields of science in 2001. The distribution of total S&E instructional space across all 13 research fields was determined for respondent institutions. Data for the nonrespondents were imputed by distributing their total S&E research space across all 13 research fields using the same percentages.

For biomedical research hospitals:

- Total S&E research space for 2001 = 28,791 + .009698*amount of support received from NIH in FY 2000.
- Amount of S&E research space in the biological and medical sciences in 2001. The distribution of total S&E research space across the biological and medical research fields was determined using the respondent data. For the nonrespondents, their total S&E research space was then distributed across the two science fields.

For biomedical research organizations:

- Total S&E research space for 2001 = 32,749 + .00134*amount of support received from NIH in FY 2000.
- Amount of S&E research space in the biological and medical sciences in 2001. The distribution of total S&E research space across the biological and medical research fields was determined using the respondent data. For the nonrespondents, their total S&E research space was then distributed across the two science fields.

Item Nonresponse

There was no item nonresponse.

Data Availability

Data published in this report are also available on the World Wide Web and can be found at http://www.nsf.gov/sbe/srs/stats.htm. Due to a pledge of confidentiality with the responding institutions, individual institutional data are not available; all data are in aggregate form only.

SECTION B.
DETAILED STATISTICAL TABLES

Table *Page*

S&E Research Space

1. Academic science and engineering research space, by field: 1988-2001 11

2. Geographic distribution of academic science and engineering research space, by field: 2001 12

3. Institutional distribution of academic science and engineering research space, by field and type of institution: 2001 13

4. Amount of instructional and research space, by type of institution: 2001 14

5. Leased academic science and engineering research space, by type of institution: 2001 15

6. Percentage of institutions with leased academic science and engineering research space, by field and type of institution: 2001 16

S&E Research Space Needs

7. Academic science and engineering research space needs, by field: 2001 17

8. Academic science and engineering research space needs, by type of institution: 2001 18

9. Academic science and engineering research space needs, by geographic distribution: 2001 19

10. Institutions needing additional academic science and engineering research space, by field: 2001 20

Biomedical Research Space

11. Geographic distribution of biomedical research space, by field and type of institution: 2001 21

12. Percentage of institutions with leased biomedical research space, by field and type of institution: 2001 22

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Table 1. **Academic science and engineering research space, by field: 1988-2001**[1]

Field	Net assignable square feet [in millions]								Percentage change[2]
	1988	1990	1992	1994	1996	1998	1999	2001	1999-2001
All fields	112	116	122	127	136	143	150	155	4
Agricultural sciences	18	21	20	20	22	25	25	27	7
Biological sciences	24	27	28	28	30	31	32	33	4
Inside all medical schools[3]	8	9	11	11	11	12	13	13	10
Outside medical schools	16	18	17	17	19	19	20	20	0
Computer sciences	1	1	2	2	2	2	2	2	-1
Earth, atmospheric, and ocean sciences	6	6	7	7	7	8	8	8	2
Engineering	16	17	18	21	22	23	25	26	7
Mathematics	1	1	1	1	1	1	1	1	0
Medical sciences	19	20	22	23	25	25	27	28	4
Inside all medical schools[3]	14	15	16	17	18	18	19	20	5
Outside medical schools	5	5	6	6	7	7	8	8	-1
Physical sciences	16	16	16	17	18	18	19	19	0
Psychology	3	3	3	3	3	3	4	4	8
Social sciences	3	3	3	3	4	5	5	5	-4
Other sciences	4	2	2	2	2	3	3	3	-4

[1] In past surveys, the year assigned to a survey reflected the year that the survey report was published. For example, the 1998 survey was published in 1998 while the data were collected for 1997. Starting with the 1999 survey, the survey year reflects the year of the current amount of space.

[2] Percentage-change calculations are based on institutions that provided data for both years and on unrounded numbers.

[3] Includes stand-alone medical schools.

NOTE: Components may not add to totals due to rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

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Table 2. **Geographic distribution of academic science and engineering research space, by field: 2001**[1]

Field	Net assignable square feet [in millions]						
	All states	Northeast	Midwest	South	West	EPSCoR states[2]	IDeA states[3]
All fields	155.1	31.7	37.1	52.0	33.8	24.7	23.4
Agricultural sciences	26.7	3.5	7.9	10.3	4.9	6.7	6.6
Biological sciences	33.4	7.3	8.1	11.0	6.8	4.9	4.4
Inside all medical schools[4]	13.1	3.3	3.1	4.7	1.7	1.8	1.5
Inside all AAMC medical schools[4]	12.3	3.1	2.9	4.4	1.7	1.6	1.4
Outside medical schools	20.3	4.0	5.0	6.2	5.0	3.1	2.9
Computer sciences	2.4	0.8	0.5	0.5	0.5	0.3	0.3
Earth, atmospheric, and ocean sciences	8.1	1.5	1.4	2.8	2.3	1.7	1.8
Engineering	25.5	5.2	5.6	9.0	5.6	3.9	3.6
Mathematics	1.0	0.3	0.3	0.3	0.2	0.2	0.2
Medical sciences	27.8	6.0	6.3	9.3	6.1	3.2	2.5
Inside all medical schools[4]	19.9	4.2	4.4	6.9	4.3	2.3	1.8
Inside all AAMC medical schools[4]	19.1	4.0	4.3	6.4	4.3	1.9	1.6
Outside medical schools	7.9	1.8	1.9	2.5	1.8	0.8	0.7
Physical sciences	19.2	4.7	4.4	5.5	4.5	2.6	2.5
Psychology	3.6	0.9	0.9	0.9	0.9	0.4	0.4
Social sciences	4.5	0.9	1.0	1.5	1.1	0.7	0.7
Other sciences	3.0	0.7	0.6	0.8	0.8	0.4	0.3

[1] Guam and Puerto Rico are excluded from the regions but are included in other table columns where appropriate.

[2] States in which institutions are eligible for the National Science Foundation's Experimental Program to Stimulate Competitive Research.

[3] States in which institutions are eligible for grants from the Institutional Development Award program of the National Institutes of Health.

[4] Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges
EPSCoR = Experimental Program to Stimulate Competitive Research
IDeA = Institutional Development Award program

NOTE: Components may not add to totals due to rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 3. **Institutional distribution of academic science and engineering research space, by field and type of institution: 2001**

Field	Net assignable square feet [in millions]					
	All institutions	Field leaders[1]	Control		Minority-serving institutions	
			Private	Public	HBCUs[2]	Hispanic-serving institutions[3]
All fields	155.1	N/A	38.9	116.3	2.7	4.6
Agricultural sciences	26.7	13.7	1.4	25.3	0.7	0.3
Biological sciences	33.4	5.6	10.5	22.8	0.5	1.0
Inside all medical schools[4]	13.1	2.9	6.0	7.0	0.2	0.5
Inside all AAMC medical schools[4]	12.3	2.9	5.7	6.6	0.2	0.5
Outside medical schools	20.3	4.6	4.5	15.8	0.3	0.5
Computer sciences	2.4	0.9	1.0	1.4	0.2	0.1
Earth, atmospheric, and ocean sciences	8.1	2.2	1.4	6.7	0.1	0.3
Engineering	25.5	6.8	6.3	19.2	0.5	1.4
Mathematics	1.0	0.2	0.3	0.7	*	*
Medical sciences	27.8	7.1	9.7	18.0	0.2	0.6
Inside all medical schools[4]	19.9	5.5	8.1	11.8	0.1	0.5
Inside all AAMC medical schools[4]	19.1	5.5	7.8	11.3	0.1	0.5
Outside medical schools	7.9	2.6	1.6	6.3	0.1	0.1
Physical sciences	19.2	3.6	5.6	13.6	0.4	0.6
Psychology	3.6	0.7	0.9	2.7	*	0.1
Social sciences	4.5	1.4	0.8	3.7	*	0.2
Other sciences	3.0	1.4	0.9	2.1	*	0.1

[1] Field leaders are the 10 institutions with the most research space in a given field.

[2] Includes all research-performing HBCUs, including the 29 original HBCUs that have been surveyed since 1988.

[3] Institutions where at least 25 percent of the undergraduate full-time equivalent enrollment is Hispanic.

[4] Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges
HBCUs = Historically Black Colleges and Universities
N/A = Not applicable
* = Less than .05 million

NOTE: Components may not add to totals due to rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 4. **Amount of instructional and research space, by type of institution: 2001**

Type of institution	Number of institutions	Instructional space			Research space in S&E fields
		Total in all academic fields	Total in S&E fields	Total in non-S&E fields	
		Net assignable square feet (in millions)			
Total	571	287	141	146	155
Doctorate-granting	342	237	120	117	147
Top 100 in research expenditures	100	146	76	69	110
Other	242	92	44	48	37
Nondoctorate-granting	229	50	20	29	8
Public	339	213	102	111	116
Doctorate-granting	208	180	89	91	111
Nondoctorate-granting	131	33	13	20	5
Private	232	74	38	35	39
Doctorate-granting	134	57	31	26	36
Nondoctorate-granting	98	16	8	9	3
Minority-serving institutions	90	29	13	17	7
All HBCUs[1]	61	16	8	9	3
Original 29 HBCUs	29	11	5	6	2
Hispanic-serving institutions[2]	29	13	5	8	5

[1] Includes all research-performing HBCUs, including the 29 original HBCUs that have been surveyed since 1988.

[2] Institutions where at least 25 percent of the undergraduate full-time equivalent enrollment is Hispanic.

KEY: S&E = Science and engineering
HBCUs = Historically Black Colleges and Universities

NOTE: Components may not add to totals due to rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 5. **Leased academic science and engineering research space, by type of institution: 2001**

Type of institution	Total S&E research space	Leased S&E research space	Percentage of space leased
	[NASF in millions]		
All academic institutions	147.5	6.4	4.4
Doctorate-granting institutions	140.5	6.4	4.5
Nondoctorate-granting institutions	7.0	0.1	1.3
Inside all medical schools[1]	82.5	4.5	5.5
Inside all AAMC medical schools[1]	79.3	4.5	5.7
Outside medical schools	65.0	1.9	3.0
Control			
Public	111.6	4.3	3.9
Private	35.8	2.1	5.9
Minority-serving institutions	6.4	0.2	2.6
All HBCUs[2]	2.3	*	1.1
Original 29 HBCUs	1.9	*	1.3
Hispanic-serving institutions[3]	4.1	0.1	3.5

[1] Includes stand-alone medical schools.

[2] Includes all research-performing HBCUs, including the 29 original HBCUs that have been surveyed since 1988.

[3] Institutions where at least 25 percent of the undergraduate full-time equivalent enrollment is Hispanic.

KEY: AAMC = Association of American Medical Colleges
HBCUs = Historically Black Colleges and Universities
NASF = Net assignable square feet
S&E = Science and engineering
* = Less than .05 million

NOTES: Components may not add to totals due to rounding.

The values for total S&E research space reported in this table do not include any imputed data for survey nonrespondents. Further, data were not imputed for leased space for survey nonrespondents.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 6. **Percentage of institutions with leased academic science and engineering research space, by field and type of institution: 2001**

Field	Percentage of institutions						
	All institutions	Doctorate-granting institutions		Control		Minority-serving institutions	
		All	Field leaders[1]	Public	Private	HBCUs[2]	Hispanic-serving institutions[3]
All fields	29.2	45.0	N/A	31.9	24.7	7.1	20.0
Agricultural sciences	15.9	20.8	60.0	16.3	11.1	0.0	0.0
Biological sciences	12.1	19.5	50.0	13.4	10.0	2.0	0.0
Inside all medical schools[4]	31.8	32.7	40.0	35.6	27.5	33.3	0.0
Inside all AAMC medical schools[4]	35.4	35.4	40.0	36.4	34.1	33.3	0.0
Outside medical schools	7.1	11.8	30.0	9.3	3.2	0.0	0.0
Computer sciences	5.5	8.7	50.0	6.5	3.6	0.0	8.3
Earth, atmospheric, and ocean sciences	7.2	10.4	20.0	8.9	2.5	0.0	6.7
Engineering	17.4	23.0	50.0	20.9	10.1	5.0	12.5
Mathematics	1.0	1.5	20.0	1.0	0.9	0.0	0.0
Medical sciences	30.3	37.7	100.0	26.8	38.1	14.3	27.3
Inside all medical schools[4]	56.8	58.3	90.0	55.4	58.7	66.7	60.0
Inside all AAMC medical schools[4]	62.4	62.4	90.0	60.0	65.9	66.7	75.0
Outside medical schools	16.5	20.8	40.0	16.4	17.0	5.3	0.0
Physical sciences	4.7	7.6	60.0	5.9	2.5	0.0	0.0
Psychology	7.5	11.5	10.0	7.1	8.3	0.0	6.7
Social sciences	9.4	13.0	40.0	10.2	7.6	0.0	12.5
Other sciences	11.9	15.7	50.0	11.6	12.5	0.0	0.0

[1] Field leaders are the 10 institutions with the most research space in a given field.

[2] Includes all research-performing HBCUs, including the 29 original HBCUs that have been surveyed since 1988.

[3] Institutions where at least 25 percent of the undergraduate full-time equivalent enrollment is Hispanic.

[4] Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges
HBCUs = Historically Black Colleges and Universities
N/A = Not applicable

NOTES: Components may not add to totals due to rounding.
Figures are based on only those institutions with research space in a given field.
The values for leased space do not include any imputed data for survey nonrespondents.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 7. **Academic science and engineering research space needs, by field: 2001**

Field	Net assignable square feet [in millions]			Percentage of NASF reported as adequate	Additional space needed as a percentage of NASF[1]
	Available space in 2001	Available space reported as adequate	Additional space needed[1]		
All fields	147.5	42.7	40.4	29.0	27.4
Agricultural sciences	25.6	7.6	2.7	29.8	10.6
Biological sciences	31.9	8.5	10.0	26.6	31.5
Inside all medical schools[2]	12.4	4.0	4.3	32.0	34.9
Inside all AAMC medical schools[2]	12.1	3.9	4.1	32.6	33.9
Outside medical schools	19.4	4.5	5.7	23.1	29.3
Computer sciences	2.1	0.6	2.2	26.9	108.5
Earth, atmospheric, and ocean sciences	7.7	2.9	2.0	37.5	25.7
Engineering	24.2	5.7	6.2	23.3	25.7
Mathematics	0.9	0.6	0.6	68.8	69.1
Medical sciences	26.3	6.0	9.0	22.8	34.1
Inside all medical schools[2]	18.8	3.5	6.8	18.9	36.4
Inside all AAMC medical schools[2]	18.5	3.5	6.7	19.0	36.2
Outside medical schools	7.5	2.4	2.1	32.5	28.3
Physical sciences	18.3	5.9	4.6	32.5	24.9
Psychology	3.4	1.3	1.1	37.0	31.3
Social sciences	4.3	1.7	1.5	38.5	34.3
Other sciences	2.8	2.0	0.5	71.8	17.5

[1] Additional space needed is based on current research program commitments.

[2] Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges
NASF = Net assignable square feet

NOTES: Components may not add to totals due to rounding.
The values for total S&E research space reported in this table do not include any imputed data for survey nonrespondents. Further, data were not imputed for available space reported as adequate or additional space needed.
Percentage calculations are based on unrounded numbers.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 8. **Academic science and engineering research space needs, by type of institution: 2001**

Type of institution	Net assignable square feet [in millions]		
	Available space in 2001	Available space reported as adequate	Additional space needed[1]
All academic institutions	147.5	42.7	40.4
Doctorate-granting institutions	140.5	39.4	36.0
Nondoctorate-granting institutions	7.0	3.3	4.3
Inside all medical schools[2]	82.5	22.7	22.6
Inside all AAMC medical schools[2]	79.3	22.1	21.6
Outside medical schools	65.0	20.0	17.8
Control			
Public	111.6	31.1	31.1
Private	35.8	11.6	9.2
Minority-serving institutions	6.4	2.4	3.5
All HBCUs[3]	2.3	0.8	2.3
Original 29 HBCUs	1.9	0.7	1.2
Hispanic-serving institutions[4]	4.1	1.6	1.2

[1] Additional space needed is based on current research program commitments.

[2] Includes stand-alone medical schools.

[3] Includes all research-performing HBCUs, including the 29 original HBCUs that have been surveyed since 1988.

[4] Institutions where at least 25 percent of the undergraduate full-time equivalent enrollment is Hispanic.

KEY: AAMC = Association of American Medical Colleges
HBCUs = Historically Black Colleges and Universities

NOTES: Components may not add to totals due to rounding.

The values for total S&E research space reported in this table do not include any imputed data for survey nonrespondents. Further, data were not imputed for available space reported as adequate or additional space needed.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Table 9. **Academic science and engineering research space needs, by geographic distribution: 2001**

Geographic distribution	Net assignable square feet [in millions]		
	Available space in 2001	Available space reported as adequate	Additional space needed[1]
All states[2]	147.5	42.7	40.4
Northeast	29.6	11.8	7.1
Midwest	35.6	11.3	7.2
South	49.6	11.0	16.0
West	32.1	8.6	9.9
EPSCoR states[3]	22.6	6.3	7.4
IDeA states[4]	22.2	6.5	7.0

[1] Additional space needed is based on current research program commitments.

[2] Guam and Puerto Rico are excluded from the regions but are included in other table columns where appropriate.

[3] States in which institutions are eligible for the National Science Foundation's Experimental Program to Stimulate Competitive Research.

[4] States in which institutions are eligible for grants from the Institutional Development Award program of the National Institutes of Health.

KEY: EPSCoR = Experimental Program to Stimulate Competitive Research
IDeA = Institutional Development Award program

NOTES: Components may not add to totals due to rounding.

The values for total S&E research space reported in this table do not include any imputed data for survey nonrespondents. Further, data were not imputed for available space reported as adequate or additional space needed.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

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Table 10. **Institutions needing additional academic science and engineering research space, by field: 2001**

Field	Percentage of institutions with no additional space needed	Percentage of institutions needing additional space of . . .		
		Less than 10 percent of current space	10 percent to 25 percent of current space	More than 25 percent of current space
All fields	17.7	13.3	18.3	50.7
Agricultural sciences	43.0	19.6	8.4	29.0
Biological sciences	33.8	8.8	12.5	44.9
Inside all medical schools[1]	33.7	8.2	14.5	43.6
Inside all AAMC medical schools[1]	33.6	9.5	15.8	41.1
Outside medical schools	37.1	7.7	11.1	44.1
Computer sciences	43.3	1.6	3.5	51.6
Earth, atmospheric, and ocean sciences	47.7	6.5	10.1	35.7
Engineering	37.8	10.0	13.6	38.6
Mathematics	60.9	2.2	4.1	32.8
Medical sciences	39.6	5.4	14.4	40.6
Inside all medical schools[1]	27.1	6.3	25.2	41.4
Inside all AAMC medical schools[1]	27.0	7.0	26.0	40.0
Outside medical schools	48.0	5.7	9.3	37.0
Physical sciences	40.6	7.4	10.8	41.2
Psychology	47.2	5.9	5.1	41.8
Social sciences	47.1	6.0	9.3	37.6
Other sciences	63.6	4.2	7.6	24.6

[1] Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges

NOTES: Figures are based on only those institutions with research space in a given field.

Amount of space needed was assessed relative to current research commitments.

The values for additional space needed do not include any imputed data for survey nonrespondents.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities.

Table 11. **Geographic distribution of biomedical research space, by field and type of institution: 2001**

Field and type of institution	Net assignable square feet (in millions)					
	All states	Northeast	Midwest	South	West	IDeA program states[1]
Biological sciences	43.3	11.5	9.1	12.6	9.8	5.0
Academic institutions	33.4	7.3	8.1	11.0	6.8	4.4
Inside all medical schools[2]	13.1	3.3	3.1	4.7	1.7	1.5
Inside all AAMC medical schools[2]	12.3	3.1	2.9	4.4	1.7	1.4
Outside medical schools	20.3	4.0	5.0	6.2	5.0	2.9
Biomedical research institutions	7.4	2.5	0.7	1.3	2.8	0.6
Research hospitals	2.5	1.7	0.3	0.3	0.2	*
Medical sciences	34.9	9.3	7.3	9.9	8.3	3.0
Academic institutions	27.8	6.0	6.3	9.3	6.1	2.5
Inside all medical schools[2]	19.9	4.2	4.4	6.9	4.3	1.8
Inside all AAMC medical schools[2]	19.1	4.0	4.3	6.4	4.3	1.6
Outside medical schools	7.9	1.8	1.9	2.5	1.8	0.7
Biomedical research institutions	2.4	0.5	0.4	0.3	1.3	*
Research hospitals	4.7	2.9	0.6	0.3	0.9	0.4

[1] States in which institutions are eligible for grants through the Institutional Development Award program of the National Institutes of Health.

[2] Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges
IDeA = Institutional Development Award program
* = Less than .05 million

NOTES: Guam and Puerto Rico are excluded from the regions but are included in other appropriate table columns. Components may not add to totals due to rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities.

Table 12. **Percentage of institutions with leased biomedical research space, by field and type of institution: 2001**

Type of institution	Biological sciences	Medical sciences
All institutions	18	34
Academic institutions	12	30
Inside all medical schools[1]	32	57
Inside all AAMC medical schools[1]	36	63
Outside medical schools	7	16
Biomedical research institutions	45	49
Research hospitals	38	37

[1] Includes stand-alone medical schools.

KEY: AAMC = Association of American Medical Colleges

SOURCE: National Science Foundation/Division of Science Resources Statistics, FY 2001 Survey of Scientific and Engineering Research Facilities

Section C.
Lists of Institutions

List of Eligible Academic Institutions

1. Abilene Christian University
2. Adelphi University
3. Alabama A & M University
4. Alabama State University
5. Albany College of Pharmacy
6. Albany Medical College
7. Albany State University
8. Alcorn State University
9. Alfred University
10. Allegheny College
11. Alliant University/California School of Professional Psychology System
12. American University
13. Amherst College
14. Andrews University
15. Appalachian State University
16. Applied Physics Lab
17. Arizona State University
18. Arkansas State University
19. Arkansas Tech University
20. Auburn University
21. Augsburg College
22. Azusa Pacific University
23. Ball State University
24. Barnard College
25. Bates College
26. Baylor College of Dentistry
27. Baylor College of Medicine
28. Baylor University
29. Benedict College
30. Bennett College
31. Bethune Cookman College
32. Binghamton University
33. Boise State University
34. Boston College
35. Boston University
36. Bowdoin College
37. Bowie State University
38. Bowling Green State University
39. Bradley University
40. Brandeis University
41. Bridgewater State College
42. Brigham Young University
43. Brown University
44. Bryn Mawr College
45. Bucknell University
46. C R Drew University of Medicine & Science
47. California Institute of Integral Studies

48. California Institute of Technology
49. California Polytechnic State University, San Luis Obispo
50. California State Polytechnic University Pomona
51. California State University, Bakersfield
52. California State University, Chico
53. California State University, Dominguez Hills
54. California State University, Fresno
55. California State University, Fullerton
56. California State University, Long Beach
57. California State University, Los Angeles
58. California State University, Northridge
59. California State University, San Bernardino
60. Calvin College
61. Carleton College
62. Carnegie Mellon University
63. Case Western Reserve University
64. Catholic University of America
65. Central Connecticut State University
66. Central Michigan University
67. Central State University
68. Central Washington University
69. Chicago State University
70. City College of New York
71. City University of New York, Baruch College
72. City University of New York, Brooklyn College
73. City University of New York, Graduate Center
74. City University of New York, Herbert H. Lehman College
75. City University of New York, Hunter College
76. City University of New York, John Jay College of Criminal Justice
77. City University of New York, York College
78. Claflin University
79. Claremont Graduate University
80. Clark Atlanta University
81. Clark University
82. Clarkson University
83. Clemson University
84. Cleveland State University
85. Colby College
86. College of Charleston
87. College of Staten Island of the City University of New York
88. College of the Holy Cross
89. College of William & Mary
90. College of Wooster
91. Colorado College
92. Colorado School of Mines
93. Colorado State University
94. Columbia University in the City of New York
95. Connecticut College
96. Cooper Union for the Advancement of Science and Art
97. Cornell University
98. Creighton University
99. Dartmouth College

100. Delaware State University
101. Denison University
102. DePaul University
103. Des Moines University - Osteopathic Medical Center
104. Desert Research Institute
105. Dickinson College
106. Dillard University
107. Drake University
108. Drexel University
109. Duke University
110. Duquesne University
111. East Carolina University
112. East Stroudsburg University of PA
113. East Tennessee State University
114. Eastern Kentucky University
115. Eastern Michigan University
116. Eastern Virginia Medical School
117. Eastern Washington University
118. Elizabeth City State University
119. Embry-Riddle Aeronautical University
120. Emory University
121. Fairfield University
122. Fairleigh Dickinson University
123. Fayetteville State University
124. Ferris State University
125. Finch University of Health Sciences/The Chicago Medical School
126. Fisk University
127. Florida A & M University
128. Florida Atlantic University
129. Florida Institute of Technology
130. Florida International University
131. Florida State University
132. Fordham University
133. Fort Lewis College
134. Fort Valley State University
135. Franklin & Marshall College
136. Fuller Theological Seminary
137. Furman University
138. Gallaudet University
139. George Mason University
140. George Washington University
141. Georgetown University
142. Georgia Institute of Technology
143. Georgia Southern University
144. Georgia State University
145. Grambling State University
146. Grand Valley State University
147. Grinnell College
148. Hamilton College
149. Hampshire College

150. Hampton University
151. Harvard Faculty of Arts and Sciences
152. Harvard Medical School
153. Harvard School of Public Health
154. Harvey Mudd College
155. Haverford College
156. Hofstra University
157. Hope College
158. Howard University
159. Humboldt State University
160. Idaho State University
161. Illinois Institute of Technology
162. Illinois State University
163. Indiana State University
164. Indiana University
165. Indiana University of PA, All Campuses
166. Institute of Paper Science & Technology
167. Institute of Textile Technology
168. Iowa State University
169. Ithaca College
170. Jackson State University
171. James Madison University
172. Jarvis Christian College
173. John Carroll University
174. Johns Hopkins University
175. Johnson C. Smith University
176. Juniata College
177. Kansas State University
178. Kennesaw State University
179. Kent State University
180. Kentucky State University
181. Kettering University
182. Kirksville College of Osteopathic Medicine
183. Knox College
184. Lafayette College
185. Lake Forest College
186. Lamar University
187. Langston University
188. Lawrence Technological University
189. Lehigh University
190. Lemoyne-Owen College
191. Lewis & Clark College
192. Lincoln University
193. Lincoln University (PA)
194. Loma Linda University
195. Long Island University
196. Louisiana State University, A & M College
197. Louisiana State University, Health Science Center
198. Louisiana Tech University
199. Loyola College in Maryland
200. Loyola University Chicago

201. Maharishi University of Management
202. Manhattan College
203. Marquette University
204. Marshall University
205. Massachusetts College of Pharmacy and Allied Health Science
206. Massachusetts Institute of Technology
207. McNeese State University
208. MCP Hahnemann University
209. Medical College of Georgia
210. Medical College of Ohio
211. Medical College of Wisconsin
212. Medical University of South Carolina
213. Meharry Medical College
214. Mercer University
215. Miami University (OH)
216. Michigan State University
217. Michigan Technological University
218. Middle Tennessee State University
219. Middlebury College
220. Midwestern University
221. Milwaukee School of Engineering
222. Minnesota State University - Mankato
223. Mississippi State University
224. Mississippi Valley State University
225. Monmouth University
226. Montana State University - Bozeman
227. Montana Tech of The University of Montana
228. Montclair State University
229. Morehouse College
230. Morehouse School of Medicine
231. Morgan State University
232. Morris Brown College
233. Mount Holyoke College
234. Mount Sinai School of Medicine
235. Murray State University
236. New England College of Optometry
237. New Jersey Institute of Technology
238. New Mexico Highlands University
239. New Mexico Institute of Mining and Technology
240. New Mexico State University
241. New School University
242. New York Institute of Technology
243. New York Medical College
244. New York University
245. Nicholls State University
246. Norfolk State University
247. North Carolina Agricultural and Technical State University
248. North Carolina Central University
249. North Carolina State University
250. North Dakota State University
251. Northeast Louisiana University

252. Northeastern Illinois University
253. Northeastern Ohio University College of Medicine
254. Northeastern University
255. Northern Arizona University
256. Northern Illinois University
257. Northwestern University
258. Nova Southeastern University
259. Oakland University
260. Oakwood College
261. Occidental College
262. Ohio State University
263. Ohio University
264. Ohio Wesleyan University
265. Oklahoma State University
266. Old Dominion University
267. Oral Roberts University
268. Oregon Graduate Institute of Science and Technology
269. Oregon Health Sciences University
270. Oregon State University
271. Pace University
272. Pacific University
273. Pennsylvania College of Optometry
274. Pennsylvania State University
275. Philadelphia College of Osteopathic Medicine
276. Philadelphia College of Pharmacy and Science
277. Philander Smith College
278. Pittsburg State University
279. Pitzer College
280. Plattsburgh State University
281. Point Loma Nazarene College
282. Polytechnic University
283. Pomona College
284. Ponce School of Medicine
285. Portland State University
286. Prairie View A & M University
287. Princeton University
288. Providence College
289. Purdue University
290. Queens College - City University of New York
291. Radford University
292. Reed College
293. Regis University
294. Rensselaer Polytechnic Institute
295. Rice University
296. Rider University
297. Rochester Institute of Technology
298. Rockefeller University
299. Rose-Hulman Institute of Technology
300. Rush University
301. Rust College
302. Rutgers, The State University of New Jersey

303. Saint Cloud State University
304. Saint John's University
305. Saint Louis University
306. Salem-Teikyo University
307. Sam Houston State University
308. San Diego State University
309. San Francisco State University
310. San Jose State University
311. Santa Clara University
312. Savannah State University
313. Seton Hall University
314. Shaw University
315. Simmons College
316. Skidmore College
317. Smith College
318. Sonoma State University
319. South Carolina State University
320. South Dakota School of Mines and Technology
321. South Dakota State University
322. Southeast Missouri State University
323. Southeastern Louisiana University
324. Southern Connecticut State University
325. Southern Illinois University at Carbondale
326. Southern Illinois University at Edwardsville
327. Southern Methodist University
328. Southern Oregon University
329. Southern University and A & M College
330. Southwest Missouri State University
331. Southwest Texas State University
332. Spalding University
333. Spelman College
334. St. Joseph's University
335. St. Mary's College of MD
336. St. Mary's University
337. St. Olaf College
338. Stanford University
339. State University of New York College of Environmental Science
340. State University of New York College of Optometry
341. State University of New York College, Brockport
342. State University of New York College, Buffalo
343. State University of New York College, Cortland
344. State University of New York College, Fredonia
345. State University of New York College, Geneseo
346. State University of New York College, Old Westbury
347. State University of New York College, Oswego
348. State University of New York Health Science Center at Brooklyn
349. State University of New York Upstate Medical University
350. State University of New York, Albany
351. State University of New York, Buffalo
352. State University of New York, Stony Brook
353. State University of West Georgia

354. Stephen F. Austin State University
355. Stevens Institute of Technology
356. Sul Ross State University
357. Swarthmore College
358. Syracuse University
359. Tarleton State University
360. Teachers College, Columbia University
361. Temple University
362. Tennessee State University
363. Tennessee Technological University
364. Texas A&M University
365. Texas A&M University, Commerce
366. Texas A&M Univeristy, Corpus Christi
367. Texas A&M University, Kingsville
368 Texas A&M University System Health Science Center
369. Texas Christian University
370. Texas Southern University
371. Texas Tech University
372. Texas Woman's University
373. Thomas Jefferson University
374. Tougaloo College
375. Towson University
376. Trinity College
377. Trinity University
378. Truman State University
379. Tufts University
380. Tulane University
381. Tuskegee University
382. UMDNJ-New Jersey Medical School
383. Union College
384. Union Institute
385. University Ctrl Del Caribe Esc Medicine
386. University of Akron
387. University of Alabama
388. University of Alabama, Birmingham
389. University of Alabama, Huntsville
390. University of Alaska, Fairbanks
391. University of Alaska, Anchorage
392. University of Arizona
393. University of Arkansas for Medical Sciences
394. University of Arkansas, Little Rock
395. University of Arkansas, Main Campus
396. University of Arkansas, Pine Bluff
397. University of California, Berkeley
398. University of California, Davis
399. University of California, Irvine
400. University of California, Los Angeles
401. University of California, Riverside
402. University of California, San Diego
403. University of California, San Francisco
404. University of California, Santa Barbara

405. University of California, Santa Cruz
406. University of Central Arkansas
407. University of Central Florida
408. University of Central Oklahoma
409. University of Chicago
410. University of Cincinnati
411. University of Colorado Health Sciences Center
412. University of Colorado, Boulder
413. University of Colorado, Colorado Springs
414. University of Colorado, Denver
415. University of Connecticut
416. University of Dayton
417. University of Delaware
418. University of Denver
419. University of Detroit Mercy
420. University of Findlay
421. University of Florida
422. University of Georgia
423. University of Guam
424. University of Hartford
425. University of Hawaii
426. University of Health Sciences
427. University of Houston
428. University of Houston, Downtown
429. University of Houston, Clear Lake
430. University of Idaho
431. University of Illinois, Chicago
432. University of Illinois, Springfield
433. University of Illinois, Urbana-Champaign
434. University of Iowa
435. University of Kansas
436. University of Kentucky
437. University of Louisiana, Lafayette
438. University of Louisville
439. University of Maine
440. University of Maryland, Biotechnology Institute
441. University of Maryland, Center for Environmental Science
442. University of Maryland, College Park
443. University of Maryland, Eastern Shore
444. University of Maryland, Baltimore
445. University of Maryland, Baltimore County
446. University of Massachusetts
447. University of Massachusetts Medical School
448. University of Massachusetts, Boston
449. University of Massachusetts, Dartmouth
450. University of Massachusetts, Lowell
451. University of Memphis
452. University of Miami
453. University of Michigan
454. University of Minnesota
455. University of Mississippi, All Campuses

456. University of Missouri Systems Administration
457. University of Missouri, Columbia
458. University of Missouri, Kansas City
459. University of Missouri, Rolla
460. University of Missouri, Saint Louis
461. University of Montana, Missoula
462. University of Nebraska Medical Center
463. University of Nebraska, Lincoln
464. University of Nebraska, Omaha
465. University of Nevada, Las Vegas
466. University of Nevada, Reno
467. University of New Hampshire
468. University of New Haven
469. University of New Mexico, Main Campus
470. University of New Orleans
471. University of North Carolina, Asheville
472. University of North Carolina, Chapel Hill
473. University of North Carolina, Charlotte
474. University of North Carolina, Greensboro
475. University of North Carolina, Wilmington
476. University of North Dakota
477. University of North Texas
478. University of North Texas Health Science Center
479. University of Northern Colorado
480. University of Northern Iowa
481. University of Notre Dame
482. University of Oklahoma
483. University of Oregon
484. University of Pennsylvania
485. University of Pittsburgh
486. University of Portland
487. University of Puerto Rico, Mayaguez Campus
488. University of Puerto Rico, Medical Science Campus
489. University of Puerto Rico, Rio Piedras Campus
490. University of Rhode Island
491. University of Richmond
492. University of Rochester
493. University of San Diego
494. University of San Francisco
495. University of South Alabama
496. University of South Carolina
497. University of South Dakota
498. University of South Florida
499. University of Southern California
500. University of Southern Colorado
501. University of Southern Maine
502. University of Southern Mississippi
503. University of Tennessee
504. University of Tennessee, Chattanooga
505. University of Texas, Arlington
506. University of Texas, Austin

507. University of Texas, Dallas
508. University of Texas, El Paso
509. University of Texas, Health Science Center at San Antonio
510. University of Texas, Houston Health Science Center
511. University of Texas, MD Anderson Cancer Center
512. University of Texas, Medical Branch at Galveston
513. University of Texas, Pan American
514. University of Texas, San Antonio
515. University of Texas, Southwestern Medical Center at Dallas
516. University of the District of Columbia
517. University of the Pacific
518. University of the Virgin Islands
519. University of Toledo
520. University of Tulsa
521. University of Utah
522. University of Vermont
523. University of Virginia
524. University of Washington, Seattle
525. University of West Florida
526. University of Wisconsin, Eau Claire
527. University of Wisconsin, Green Bay
528. University of Wisconsin, La Crosse
529. University of Wisconsin, Madison
530. University of Wisconsin, Milwaukee
531. University of Wisconsin, Oshkosh
532. University of Wisconsin, Parkside
533. University of Wisconsin, River Falls
534. University of Wisconsin, Stevens Point
535. University of Wisconsin, Stout
536. University of Wisconsin, Superior
537. University of Wisconsin, Whitewater
538. University of Wyoming
539. Utah State University
540. Valparaiso University
541. Vanderbilt University
542. Vassar College
543. Villanova University
544. Virginia Commonwealth University
545. Virginia Military Institute
546. Virginia Polytechnic Institute and State University
547. Virginia State University
548. Virginia Union University
549. Wake Forest University
550. Washington State University
551. Washington University in St. Louis
552. Wayne State University
553. Wellesley College
554. Wentworth Institute of Technology
555. Wesleyan University
556. West Chester University
557. West Texas A & M University

558. West Virginia State College
559. West Virginia University
560. Western Carolina University
561. Western Illinois University
562. Western Kentucky University
563. Western Michigan University
564. Western State College
565. Western University of Health Science
566. Western Washington University
567. Whitman College
568. Wichita State University
569. Widener University, All Campuses
570. Wilberforce University
571. Willamette University
572. Williams College
573. Winston-Salem State University
574. Woods Hole Oceanographic Institution
575. Worcester Polytechnic Institute
576. Wright State University
577. Xavier University of Louisiana
578. Yale University
579. Yeshiva University
580. Youngstown State University

List of Hispanic-Serving Institutions

1. California State University, Bakersfield
2. California State University, Dominguez Hills
3. California State University, Fresno
4. California State University, Los Angeles
5. California State University, Northridge
6. California State University, San Bernardino
7. City University of New York, City College
8. City University of New York, Herbert H. Lehman College
9. City University of New York, John Jay College of Criminal Justice
10. Florida International University
11. New Mexico Highlands University
12. New Mexico State University
13. St. Mary's University
14. Sul Ross State University
15. Texas A&M University, Corpus Christi
16. Texas A&M University, Kingsville
17. Universidad Central Del Caribe Esc Medicine
18. University of Houston
19. University of Houston, Downtown
20. University of Miami
21. University of New Mexico, Main Campus
22. University of Puerto Rico, Mayaguez Campus
23. University of Puerto Rico Medical Sciences Campus
24. University of Puerto Rico, Rio Piedras Campus
25. University of Southern Colorado
26. University of Texas, Pan American
27. University of Texas, El Paso
28. University of Texas, San Antonio
29. University of Texas Health Science Center, San Antonio

List of Original 29 Historically Black Colleges and Universities

1. Alabama A&M University
2. Albany State University
3. Alcorn State University
4. Clark Atlanta University
5. Dillard University
6. Fisk University
7. Florida A&M University
8. Grambling State University
9. Howard University
10. Jackson State University
11. Kentucky State University
12. Lincoln University
13. Lincoln University (PA)
14. Meharry Medical Collage
15. Morehouse School of Medicine
16. Morgan State University
17. Norfolk State University
18. North Carolina Agricultural and Technical State
19. Prairie View A&M University
20. South Carolina State University
21. Southern University & A&M College
22. Tennessee State University
23. Texas Southern University
24. Tuskegee University
25. Central State University
26. University of Arkansas, Pine bluff
27. University of Maryland, Eastern Shore
28. University of the District of Columbia
29. Virginia State University

List of Historically Black Colleges and Universities

1. Alabama A&M University
2. Alabama State University
3. Albany State University
4. Alcorn State University
5. Benedict College
6. Bennett College
7. Bethune Cookman College
8. Bowie State University
9. Central State University
10. Claflin University
11. Clark Atlanta University
12. Delaware State University
13. Dillard University
14. Elizabeth City State University
15. Fayetteville State University
16. Fisk University
17. Florida A&M University
18. Fort Valley State University
19. Grambling State University
20. Hampton University
21. Howard University
22. Jackson State University
23. Jarvis Christian College
24. Johnson C. Smith University
25. Kentucky State University
26. Langston University
27. Lemoyne-Owen College
28. Lincoln University
29. Lincoln University (PA)
30. Meharry Medical College
31. Mississippi Valley State University
32. Morehouse College
33. Morehouse School of Medicine
34. Morgan State University
35. Morris Brown College
36. Norfolk State University
37. North Carolina Agricultural and Technical State University
38. North Carolina Central University
39. Oakwood College
40. Philander Smith College
41. Prairie View A&M University
42. Rust College
43. Savannah State University
44. Shaw University
45. South Carolina State University
46. Southern University and A&M College

47. Spelman College
48. Tennessee State University
49. Texas Southern University
50. Tougaloo College
51. Tuskegee University
52. University of Arkansas, Pine Bluff
53. University of Maryland, Eastern Shore
54. University of the District of Columbia
55. University of the Virgin Islands
56. Virginia State University
57. Virginia Union University
58. West Virginia State College
59. Wilberforce University
60. Winston-Salem State University
61. Xavier University of Louisiana

List of Eligible Biomedical Institutions

1. Aaron Diamond AIDS Research Center
2. Addiction Research Institute
3. Albert Einstein Medical Center
4. Allegheny-Singer Research Institute
5. Alton Ochsner Medical Foundation
6. AMC Cancer Research Center
7. American Dental Association Health Foundation
8. American Health Foundation
9. American Institutes for Research
10. American Type Culture Collection
11. Arkansas Children's Hospital Research Institute
12. Baptist Memorial Hospital (Memphis, TN)
13. Barnes-Jewish Hospital
14. Battelle Memorial Institute
15. Baylor Research Institute
16. Beckman Research Institute
17. Belmont Center/Comprehensive Treatment
18. Beth Israel Deaconess Medical Center
19. Beth Israel Medical Center (New York)
20. Biomedical Research Institute
21. Blood Center of Southeastern Wisconsin
22. Boston Biomedical Research Institute
23. Boston Medical Center
24. Boyce Thompson Institute for Plant Research
25. Brentwood Biomedical Research Institute
26. Brigham and Women's Hospital
27. Bronx-Lebanon Hospital Center
28. Buck Institute for Age Research
29. Butler Hospital
30. California Pacific Medical Center, Pacific Campus
31. Cancer Research Fund of Contra Costa
32. Carnegie Institution of Washington, DC
33. Carolinas Medical Center
34. Catherine McAuley Health Center
35. Cedars-Sinai Medical Center
36. Center for Applied Linguistics
37. Center for Blood Research
38. Center for Health Studies
39. Central New York Research Corporation
40. Children's Hospital (Denver)
41. Children's Hospital and Regional Medical Center
42. Children's Hospital Boston
43. Children's Hospital Medical Center (Cincinnati)
44. Children's Hospital Oakland
45. Children's Hospital of Los Angeles
46. Children's Hospital of Orange County
47. Children's Hospital of Philadelphia
48. Children's Hospital of Pittsburgh

49. Children's Hospital Research Center
50. Children's Memorial Hospital (Chicago)
51. Children's Mercy Hospital (Kansas City, MO)
52. Children's Research Institute (Columbus, OH)
53. Children's Research Institute (Washington, DC)
54. Christiana Care
55. City of Hope National Medical Center
56. Cleveland Clinic Foundation
57. Cold Spring Harbor Laboratory
58. Columbus Community Clinical Oncology Program
59. Connecticut Children's Medical Center
60. Cooper Health System
61. Cooper Institute for Aerobics Research
62. Coriell Institute for Medical Research
63. Cox Health Systems
64. Dana-Farber Cancer Institute
65. Decatur Memorial Hospital
66. Delaware Water Gap Science Institute
67. Denver Health & Hospital Authority
68. Developmental Studies Center
69. Doheny Eye Institute
70. East Bay Institute for Research and Education
71. Education Development Center, Inc.
72. Eleanor Roosevelt Institute for Cancer Research
73. Emma Pendleton Bradley Hospital
74. Ernest Gallo Clinic and Research Center
75. Evanston Hospital
76. Evanston Northwestern Healthcare Research Institute
77. Family Health International
78. Forsyth Institute
79. Fox Chase Cancer Center
80. Fred Hutchinson Cancer Research Center
81. Friends Research Institute Inc.
82. Frontier Science & Technology Research Foundation, Inc.
83. Garden State Cancer Center/Center Molecular Medicine & Immunology
84. Good Samaritan Hospital
85. Good Samaritan Regional Med. Center
86. Greenwood Genetic Center
87. Guthrie Foundation for Education & Research
88. Hackensack University Medical Center
89. Harbor Branch Oceanographic Institution, Inc.
90. Harbor-UCLA Research & Education Institute
91. Haskins Laboratories
92. Hauptman-Woodward Medical Research Institute
93. Health Partners Research Foundation
94. Hebrew Rehabilitation Center for Aged
95. Helen Hayes Hospital
96. Hope Heart Institute
97. Hospital for Joint Diseases
98. Hospital for Special Surgery
99. House Ear Institute

100. Human BioMolecular Research Institute
101. Huntington Medical Research Institutes
102. IIT Research Institute
103. Infectious Disease Research Institute
104. Ingalls Memorial Hospital
105. Institute for Basic Research in Developmental Disabilities
106. Institute for Genomic Research
107. Institute for Molecular Medicine
108. Institute for Systems Biology
109. Iowa Oncology Research Association
110. J. David Gladstone Institutes
111. Jackson Laboratory
112. John B. Pierce Laboratory
113. John Wayne Cancer Institute
114. Johns Hopkins Bayview Medical Center
115. Joslin Diabetes Center
116. Kaiser Foundation Research Institute
117. Kennedy Krieger Institute
118. Kessler Medical Rehab. Research & Education Corp.
119. Kettering Medical Center
120. Kuakini Medical Center
121. La Jolla Institute for Allergy/Immunology
122. La Jolla Institute for Molecular Medicine
123. Lahey Hitchcock Medical Center
124. Lankenau Medical Research Center
125. LDS Hospital
126. Legacy Good Samaritan Hospital & Medical Center (Portland, OR)
127. Long Island Jewish Medical Center
128. Lovelace Respiratory Research Institute
129. Magee-Womens Research Institute
130. Maine Medical Center
131. Mallory Institute of Pathology
132. Marine Biological Laboratory
133. Marshfield Clinic
134. Mary Imogene Bassett Hospital
135. Maryland Medical Research Institute
136. Masonic Medical Research Lab
137. Massachusetts Eye and Ear Infirmary
138. Massachusetts General Hospital
139. McLaughlin Research Institute for Biomedical Sciences
140. McLean Hospital
141. Medical Diagnostic Research Foundation
142. Medstar Research Institute
143. Mellon Pitts Corporation
144. Memorial Hospital of Rhode Island
145. Memorial Hospital of South Bend
146. Methodist Medical Center of Illinois
147. Methodist Research Institute
148. Metrohealth Medical Center
149. Michigan Public Health Institute
150. Midwest Research Institute

151. Minneapolis Medical Research Foundation, Inc.
152. Miriam Hospital
153. Molecular Research Institute
154. Molecular Sciences Institute
155. Monell Chemical Senses Center
156. Montefiore Medical Center
157. Moss Rehabilitation Hospital
158. Mount Desert Island Biological Lab
159. Mount Sinai Medical Center (Miami Beach)
160. Nathan S. Kline Institute for Psychiatric Research
161. National Bureau of Economic Research
162. National Childhood Cancer Foundation
163. National Development & Research Institutes, Inc.
164. National Disease Research Interchange
165. National Jewish Medical & Research Center
166. National Opinion Research Center
167. Natural Medicines Research Institute
168. Neuropsychiatric Research Institute
169. New England Medical Center
170. New York Blood Center
171. New York Methodist Hospital
172. New York State Psychiatric Institute
173. North Shore University Hospital
174. Northwest Hospital
175. Oklahoma Medical Research Foundation
176. Oregon Research Institute
177. Oregon Social Learning Center
178. Pacific Health Research Institute
179. Pacific Institute For Research And Evaluation
180. Pacific Northwest Research Institute
181. Palo Alto Institute/Molecular Medicine
182. Palo Alto Medical Foundation Research Institute
183. Parker Hughes Institute
184. Philadelphia Geriatric Center-Friedman Hospital
185. Picower Institute for Medical Research
186. Population Council
187. Providence Portland Medical Center
188. Public Health Institute
189. Public Health Research Institute
190. Puget Sound Blood Center
191. Queen's Medical Center
192. Rand Corporation
193. Rehabilitation Institute Research Corp.
194. Research Triangle Institute
195. Rhode Island Hospital (Providence, RI)
196. Riverside Research Institute
197. Roger Williams Hospital
198. Roswell Park Cancer Institute
199. Rush-Presbyterian-St. Luke's Medical Center
200. Saint Michael's Medical Center
201. Salk Institute

202. San Juan City Hospital
203. Santa Rosa Memorial Hospital
204. Schepens Eye Research Institute
205. Scientific Analysis Corporation
206. Scott and White Memorial Hospital
207. Scripps Research Institute
208. Seattle Biomedical Research Institute
209. Sinai Samaritan Medical Center
210. Sloan-Kettering Institute for Cancer Research
211. Smith-Kettlewell Eye Research Institute
212. Societal Institute of the Mathematical Sciences
213. Southern Research Institute
214. Southwest Foundation for Biomedical Research
215. Spartanburg Regional Medical Center
216. SRI International
217. St. Elizabeth's Medical Center
218. St. Francis Hospital/Medical Center
219. St. John's Mercy Medical Center
220. St. Joseph Mercy Oakland
221. St. Joseph's Hospital and Medical Center
222. St. Joseph's Hospital of Atlanta
223. St. Jude Children's Research Hospital
224. St. Luke's Roosevelt Hospital Center (New York)
225. Stehlin Foundation For Cancer Research
226. Sun Health Research Institute
227. Swedish Medical Center
228. The Burnham Institute
229. Torrey Pines Institute for Molecular Studies
230. Trudeau Institute, Inc.
231. Urban Institute
232. Utah Artificial Heart Institute
233. Vaccine Research Institute of San Diego
234. Via Christi Reg. Med. Center - St. Francis Campus
235. Virginia Mason Research Center/Benaroya Research Institute
236. Wadsworth Center
237. Weis Center for Research-Geisinger Clinic
238. Wheeler Institute for Biomedical Research
239. Whitehead Institute for Biomedical Research
240. William Beaumont Hospital Research Institute
241. Wills Eye Hospital
242. Winifred Masterson Burke Medical Research Institute
243. Winthrop - University Hospital
244. Wistar Institute
245. Women & Infants Hospital

Association of American Medical Colleges Member Medical Schools Included In Survey Population

1. Albany Medical College
2. Albert Einstein College of Medicine of Yeshiva University
3. Baylor College of Medicine
4. Boston University School of Medicine
5. Brody School of Medicine at East Carolina University
6. Brown Medical School
7. Case Western Reserve University School of Medicine
8. Columbia University College of Physicians and Surgeons
9. Creighton University School of Medicine
10. Dartmouth Medical School
11. Duke University School of Medicine
12. East Tennessee State University
13. Eastern Virginia Medical School of the Medical College of Hampton Roads
14. Emory University School of Medicine
15. Finch University of Health Sciences/The Chicago Medical School
16. George Washington University School of Medicine and Health Sciences
17. Georgetown University School of Medicine
18. Harvard Medical School
19. Howard University College of Medicine
20. Indiana University School of Medicine
21. Jefferson Medical College of Thomas Jefferson University
22. Joan & Sanford I. Weill Medical Collage of Cornell University
23. Joan C. Edwards School of Medicine at Marshall University
24. Johns Hopkins University
25. Keck School of Medicine of the University of Southern California
26. Loma Linda University School of Medicine
27. Louisiana State University School of Medicine in New Orleans
28. Loyola University Chicago Stritch School of Medicine
29. MCP Hanemann University School of Medicine
30. Medical College of Georgia
31. Medical College of Ohio
32. Medical College of Wisconsin
33. Medical University of South Carolina College of Medicine
34. Meharry Medical College of Medicine
35. Mercer University School of Medicine
36. Michigan State University College of Human Medicine
37. Morehouse School of Medicine
38. Mount Sinai School of Medicine of New York University
39. New York Medical College
40. New York University School of Medicine
41. Northeastern Ohio Universities College of Medicine
42. Northwestern University Medical School
43. Ohio State University College of Medicine and Public Health
44. Oregon Health Sciences University School of Medicine
45. Pennsylvania State University School of Medicine
46. Ponce School of Medicine

47. Rush Medical College of Rush University
48. Saint Louis University School of Medicine
49. Southern Illinois University School of Medicine
50. Stanford University School of Medicine
51. State University of New York Downstate Medical Center College of Medicine
52. State University of New York Upstate Medical University
53. Stony Brook University Health Science Centers School of Medicine
54. Temple University School of Medicine
55. Texas A&M University System Health Science Center College of Medicine
56. Texas Tech University Health Sciences Center School of Medicine
57. Tufts University School of Medicine
58. Tulane University School of Medicine
59. UMDNJ-New Jersey Medical School
60. Universidad Central Del Caribe
61. University at Buffalo, State University of New York, School of Medicine & Biomedical Sciences
62. University of Alabama School of Medicine
63. University of Arizona College of Medicine, Arizona Health Sciences Center
64. University of Arkansas College of Medicine
65. University of California at Davis, School of Medicine
66. University of California at Irvine, College of Medicine
67. University of California at Los Angeles, UCLA School of Medicine
68. University of California at San Diego, School of Medicine
69. University of California at San Francisco, School of Medicine
70. University of Chicago, Division of the Biological Sciences, The Pritzker School of Medicine
71. University of Cincinnati College of Medicine
72. University of Colorado Health Sciences Center School of Medicine
73. University of Connecticut School of Medicine
74. University of Florida College of Medicine
75. University of Hawaii John A. Burns School of Medicine
76. University of Illinois College of Medicine
77. University of Iowa College of Medicine
78. University of Kansas School of Medicine
79. University of Kentucky College of Medicine
80. University of Louisville School of Medicine
81. University of Maryland School of Medicine
82. University of Massachusetts Medical School
83. University of Miami School of Medicine
84. University of Michigan Medical School
85. University of Minnesota Medical School – Twin Cities
86. University of Mississippi School of Medicine
87. University of Missouri – Columbia School of Medicine
88. University of Missouri - Kansas City School of Medicine
89. University of Nebraska College of Medicine
90. University of Nevada School of Medicine
91. University of New Mexico School of Medicine
92. University of North Carolina at Chapel Hill School of Medicine
93. University of North Dakota School of Medicine and Health Sciences
94. University of Oklahoma College of Medicine
95. University of Pennsylvania School of Medicine
96. University of Pittsburgh School of Medicine
97. University of Puerto Rico School of Medicine

98. University of Rochester School of Medicine and Dentistry
99. University of South Alabama College of Medicine
100. University of South Carolina School of Medicine
101. University of South Dakota School of Medicine
102. University of South Florida College of Medicine
103. University of Tennessee Health Science Center College of Medicine
104. University of Texas – Houston Medical School
105. University of Texas Medical Branch at Galveston
106. University of Texas Medical School at San Antonio
107. University of Texas Southwestern Medical Center at Dallas Southwestern Medical School
108. University of Utah School of Medicine
109. University of Vermont College of Medicine
110. University of Virginia School of Medicine
111. University of Washington School of Medicine
112. University of Wisconsin Medical School
113. Vanderbilt University School of Medicine
114. Virginia Commonwealth University School of Medicine
115. Wake Forest University School of Medicine
116. Washington University in St. Louis School of Medicine
117. Wayne State University School of Medicine
118. West Virginia University School of Medicine
119. Wright State University School of Medicine
120. Yale University School of Medicine

SECTION D.
SURVEY INSTRUMENT AND MATERIALS

OMB CLEARANCE NO. 3145-0101
EXPIRATION DATE: 08/31/2002

National Science Foundation
National Institutes of Health

FY 2001 SURVEY OF SCIENTIFIC AND ENGINEERING RESEARCH FACILITIES

Acting out of concerns raised by the academic community, Congress directed the National Science Foundation (NSF) to collect and analyze data about research facilities at colleges and universities to report to Congress every two years. This survey is in response to that requirement under authorization of the National Science Foundation Act of 1950, as amended. The National Institutes of Health (NIH), co-sponsor of the survey, added biomedical research organizations and independent research hospitals to the survey.

Your participation in this survey is voluntary. However, your response is very important to us. Aggregate data from this survey are used by Congress, the Executive Branch, many higher education associations, and college and university administrators to help make policy decisions. The information compiled from these questions will provide a broad, quantitative picture of the amount and adequacy of existing science and engineering (S&E) research facilities.

NSF and NIH do not use or allow others to use detailed responses in any manner that would identify an individual organization's responses.

Preparing the information and completing the paper questionnaire requires an average of 2 hours. If you wish to comment on this burden, contact Suzanne H. Plimpton, Reports Clearance Officer, NSF, via email splimpto@nsf.gov or at (703) 292-7556. Or contact the Office of Management and Budget, Paperwork Reduction Project (OMB Number 3145-0101), Washington, DC 20603.

Please correct if name or address has changed.

Organizations are requested to complete and return this form to:

QRC Division of Macro International Inc.
Attn: NSF Facilities Survey
7315 Wisconsin Avenue, Suite 400W
Bethesda, MD 20814-3202

This form should be returned by July 24, 2001.

REMEMBER: You can submit your data on the Web at http://www.qrc.com/facweb. Please note that your Web user ID and password are printed on the adjacent label, which also contains your name and address.

If you have any questions about the survey in general please contact Leslie Christovich, Ph.D., of NSF at lchristo@nsf.gov, or Mary Sanders of QRC at (301) 657-3077, ext. 306.

If you have any technical questions, please contact technical support at (301) 657-3070 or facilities@qrc.com.

Thank you in advance for your participation in this survey.

BEST COPY AVAILABLE

How to Fill Out This Survey

A. Decide if you want to complete the paper or Web version of the questionnaire

You have the option of completing this survey using the paper version of the questionnaire, which is included in this packet, or the Web version of the questionnaire. We recommend that you use the Web version because this version reduces the need for followup and provides an online help feature. To access the Web version of the survey, just go to http://www.qrc.com/facweb. To use the Web version you will need to enter the Web user ID and password included in this packet.

B. Attention: previous survey participants

If your organization participated in the last cycle of this survey, you can review your organization's final data for questions about the amount and adequacy of space. To do this go to the survey Web site, at http://www.qrc.com/facweb, and follow the instructions. Where appropriate, you will have the option to use the historical data as your current submission.

C. Questions

If you are completing the questionnaire using the Web version of the survey, you may access the online help feature that is provided at any time. If this does not answer your questions or if you are completing the paper version of the survey, please contact one of the following people:

- For specific problems regarding survey items or definitions, please contact Mary Sanders at (301) 657-3077, ext. 306, or msanders@qrc.com.
- For technical problems please contact technical support at (301) 657-3070, or facilities@qrc.com.

Instructions for Completing Item 1

- First, to answer item 1 you need to consider these two important definitions:

  net assignable square feet (NASF): Is the sum of all areas (in square feet) on all floors of a building assigned to, or available to be assigned to, an occupant for specific use, such as instruction or research. NASF should be measured from the inside faces of walls.

  research: Refers to all research activities of your organization that are budgeted and accounted for. Research can be funded by the organization itself, the Federal Government, State governments, foundations, corporations, or other sources.

  In this survey, research space *includes*:

  - research laboratories
  - instructional laboratories that happen to be used for research
  - computer laboratories or other departmental space used for research
  - controlled-environment space, such as clean or white rooms
  - technical-support space, such as carpentry and machine shops
  - space for laboratory animals, such as animal production colonies, holding rooms, isolation and germ-free rooms
  - faculty staff offices or graduate student offices, to the extent that they are used for research
  - department libraries, to the extent that they are used for research
  - libraries that are not departmentally based, to the extent that they are used for research
  - facilities containing fixed (built-in) equipment such as fume hoods and benches; or single pieces of non-fixed equipment, each costing at least $1 million, such as MRI equipment
  - leased space

  It does *not* include:

  - space that has been designated as federally funded research and development centers (FFRDC)
  - space that is used by faculty, but not administered by the organization, such as research space at Veterans Administration or other non-university hospitals
  - space that is administered by your organization, but leased to others for their use

- Second, you will need to classify your organization's departments and programs into the broad fields listed in item 1. This is done using the groupings provided in the crosswalk at the end of the survey.

- Third, you will need to prorate the NASF in two cases: when space is used for more than one purpose and when space is shared by different S&E fields.

  If space is used for more than one purpose, prorate the NASF to reflect the proportion of use for the activity the item is asking about. For example, if space is used for S&E research only during the summer months (one-fourth of the year), then count 25% of the NASF as S&E research space.

  If space is shared by S&E fields, prorate the NASF to reflect the proportion of use by each field. For example, if space is used equally for research activity in Computer Sciences and Mathematics, count 50 percent of the NASF as research space for Computer Sciences and 50 percent for Mathematics.

- Fourth, if your organization uses a facilities inventory system based on NCES, NACUBO, or WICHE classifications, in Column 1 ("Instructional NASF"), use only the space that is assigned to functional category 1 (Instruction); in Column 2 ("Research NASF"), use only the space that is assigned to functional category 2 (Research). For help with this, please refer to the Postsecondary Education Facilities Inventory and Classification Manual, U.S. Department of Education, Office of Educational Research and Improvement, NCES 92-165, the 1988 NACUBO Taxonomy of Functions, or the 1972 WICHE Program Classification Structure.

Item 1: Amount of Space in Your Institution

1a. What was the amount of NASF used for instruction and research in each of the fields listed below at the end of your FY 2001? *Be sure to include leased space and animal research space. You may estimate if exact figures are not available.*

N/A not applicable; no space reported

Past participants: If there has been no change since 1999, check this box ☐ and go to Item 2.

S&E Field	Instructional NASF	Research NASF	Is any of this research space leased?		
			Yes	No	N/A
Engineering			○	○	○
Physical Sciences			○	○	○
Earth, Atmospheric, and Ocean Sciences			○	○	○
Mathematical Sciences			○	○	○
Computer Sciences			○	○	○
Agricultural Sciences			○	○	○
Biological Sciences not in Medical Schools			○	○	○
Biological Sciences in Medical Schools			○	○	○
Medical Sciences not in Medical Schools			○	○	○
Medical Sciences in Medical Schools			○	○	○
Psychology			○	○	○
Social Sciences			○	○	○
Other Sciences, not elsewhere classified Please List:			○	○	○
Total (all S&E Fields)					

1b. How much of the total research space for all S&E fields (Total under Research NASF in the table above) is leased? *If you do not know the exact amount, please provide your best estimate.*

_____ NASF of leased research space

1c. What is the amount of NASF used for instruction in all non-S&E fields [for example, law, business administration/ management (except economics), humanities, history, the arts or education (except educational psychology)]. *If you do not know the exact amount, please provide your best estimate.*

Instructional NASF for all non-S&E fields ☐

\+ Instructional NASF for all S&E fields ☐
(Instructional NASF total from Item 1a)

= Grand Total Instructional NASF ☐

Instructions for Completing Item 2

- To answer Item 2 you need the following definition:

  research program commitments: Refers to all research activities of an organization that are budgeted, approved, and funded.

  Research program commitments *include*:
  - current faculty and staff or those to whom offers have been made
  - grants awarded, whether or not research has actually begun
  - programs that have been approved

  Research program commitments do *not* include:
  - potential staff without offers
  - grants applied for but not awarded
  - programs designed but not yet approved

- You may also want to look at the definitions of research space provided in the instructions for Item 1.

Item 2: Adequacy of Research Space

2a. Please indicate whether the amount of research space available to each of the S&E fields listed below is adequate, inadequate, or not applicable, using these definitions:

Adequate	sufficient amount of space to support all the needs of your current S&E research program commitments in the field
Inadequate	insufficient space to support the needs of your current S&E research program commitments in the field, or non-existent but needed
Not applicable	no space reported

Past participants: If there has been no change since your 1999 survey, check this box ☐ and complete your submission.

2b. If the amount of space is inadequate, then list in the same table below the amount of additional space needed.

S&E Field	Item 2a			Item 2b
	Adequacy of S&E research space *For each field, choose the one best response.*			If the amount of space is inadequate: *Enter additional space needed.*
	Adequate	Inadequate	Not Applicable	Additional NASF Needed
Engineering	○	○	○	
Physical Sciences	○	○	○	
Earth, Atmospheric, and Ocean Sciences	○	○	○	
Mathematical Sciences	○	○	○	
Computer Sciences	○	○	○	
Agricultural Sciences	○	○	○	
Biological Sciences not in Medical Schools	○	○	○	
Biological Sciences in Medical Schools	○	○	○	
Medical Sciences not in Medical Schools	○	○	○	
Medical Sciences in Medical Schools	○	○	○	
Psychology	○	○	○	
Social Sciences	○	○	○	
Other Sciences, not elsewhere classified Please List:	○	○	○	

CROSSWALK BETWEEN NSF FIELDS OF SCIENCE & ENGINEERING AND THE NATIONAL CENTER FOR EDUCATION STATISTICS (NCES) CLASSIFICATION OF INSTRUCTIONAL PROGRAMS

NCES fields that are included within the NSF category as well as some additional illustrative disciplines. These additional disciplines are intended to be guidelines—not sharp definitions—as to what should be reported under a particular field.

Questionnaire Field	NCES Classification and Additional Illustrative Disciplines
ENGINEERING **Aeronautical & Astronautical**	14.02 Aerospace, Aeronautical, and Astronautical Engineering (also aerodynamics, space technology)
Bioengineering/ Biomedical Engineering	14.05 Bioengineering and Biomedical Engineering
Chemical	03.0509 Wood Science; 14.07 Chemical Engineering; 14.25 Petroleum Engineering (also petroleum refining process) 14.32 Polymer/Plastics Engineering
Civil	04.02 Architecture; 14.04 Architectural Engineering; 14.08 Civil Engineering 14.14 Environmental/Environmental Health Engineering (also geotechnical, hydraulic, hydrologic, sanitary and environmental, structural, transportation)
Electrical	14.09 Computer Engineering; 14.10 Electrical, Electronics, and Communications Engineering (also power engineering)
Mechanical	14.11 Engineering Mechanics; 14.19 Mechanical Engineering
Metallurgical & Materials	14.06 Ceramic Sciences and Eng.; 14.15 Geological Engineering; 14.16 Geophysical Engineering 14.18 Materials Engineering; 14.20 Metallurgical Engineering; 14.21 Mining and Mineral Eng. 14.28 Textile Sciences and Eng.; 14.31 Materials Science; 40.0701 Metallurgy (also welding)
Other	14.01 Engineering, General; 14.03 Agricultural Engineering; 14.12 Engineering Physics 14.13 Engineering Science; 14.17 Industrial/Manufacturing Eng.; 14.22 Naval Architecture and Marine Engineering 14.23 Nuclear Engineering; 14.24 Ocean Engineering 14.27 Systems Engineering; 14.29 Engineering Design; 14.30 Eng./Industrial Management 14.99 Engineering, Other; 30.06 Systems Science and Theory (also marine and ocean engineering systems)
PHYSICAL SCIENCES **Astronomy**	40.02 Astronomy; 40.03 Astrophysics (also Gamma-ray, neutrino, optical and radio, X-ray)
Chemistry	40.05 Chemistry (also analytical, inorganic, organic, organo-metallic, pharmaceutical, physical, polymer sciences (except biochemistry))
Physics	40.08 Physics (also acoustics, atomic/molecular, chemical, condensed matter, elementary particles, nuclear structure, optics, plasma, theoretical/mathematical)
Other	40.01 Physical Sciences, General; 40.0799 Miscellaneous Physical Sciences, Other; 40.99 Physical Sciences, Other (used for multidisciplinary projects within physical sciences and for disciplines not requested separately)
EARTH, ATMOSPHERIC, & OCEAN SCIENCES **Atmospheric**	40.04 Atmospheric Sciences and Meteorology (also aeronomy, extraterrestrial atmospheres, solar, weather modification)
Earth Sciences	15.1102 Surveying; 40.06 Geological and Related Sciences 40.0703 Earth & Planetary Sciences; 45.0702 Cartography (also engineering geophysics, general geology, geodesy and gravity, geomagnetism, hydrology, inorganic, isotopic, lab geophysics, organic geochemistry, paleomagnetism, paleontology, physical geography, seismology)
Oceanography	26.0607 Marine/Aquatic Biology; 40.0702 Oceanography (also biological, chemical, geological, physical)
Other	(used for multidisciplinary projects within Earth, Atmospheric, and Ocean Sciences)
MATHEMATICAL SCIENCES	27.01 Mathematics, General; 27.03 Applied Mathematics; 27.0302 Operations Research 27.05 Mathematical Statistics; 27.99 Mathematics, Other; 30.08 Math./Computer Sciences (also algebra, analysis, foundations and logic, geometry, numerical analysis, topology)

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Questionnaire Field	NCES Classification and Additional Illustrative Disciplines (cont.)
COMPUTER SCIENCES	11 Computer and Information Science, General 52.1201 Management Information Systems (also design, development, and application of computer capabilities to data storage and manipulation, information science)
AGRICULTURAL SCIENCES	01.03 Agricultural Production 01.0303 Aquaculture 01.07 International Agriculture 02.01 Agricultural Sciences 02.04 Plant Sciences 02.05 Soil Science 03 Renewable Natural Resources 04.06 Landscape Architecture (also agricultural chemistry, agronomy, animal science, conservation, fish and wildlife, forestry, horticulture)
BIOLOGICAL SCIENCES	19.05 Foods and Nutrition Studies 26.01 Biology, General 26.0202 Biochemistry 26.0203 Biophysics 26.03 Botany 26.04 Cell and Molecular Biology 26.05 Microbiology/Bacteriology 26.0601 Anatomy 26.0603 Ecology 26.0609 Nutritional Sciences 26.0610 Parasitology 26.0612 Toxicology 26.0613 Genetics, Plant and Animal 26.0614 Biometrics 26.0615 Biostatistics 26.0699 Misc. Bio. Specializations, Other 26.0701 Zoology 26.0702 Entomology 26.0704 Pathology, Human and Animal 26.0705 Pharmacology, Human and Animal 26.0706 Physiology, Human and Animal 26.0799 Zoology, Other 26.99 Biolog./Life Sciences, Other 51.1301 Medical Anatomy 51.1302 Medical Biochemistry 51.1307 Medical Immunology 51.1308 Medical Microbiology 51.1312 Medical Pathology 51.1313 Medical Physiology 51.1314 Medical Toxicology 51.2203 Epidemiology (also allergies and immunology, biogeography, biotechnology, pathology, physical anthropology, virology)
MEDICAL SCIENCES	26.0608 Neurosciences 26.0611 Radiation Biology/Radiobiol. 30.11 Gerontology 51.02 Communication Disorders Sciences and Services 51.04 Dentistry 51.07 Health and Medical Administrative Services 51.10 Health and Medical Laboratory Technologies 51.1201 Medicine, General 51.1399 Med. Basic Sciences, Other 51.16 Nursing Technologies 51.1610 Nursing Psychiatry/ Mental Health 51.17 Optometry 51.19 Osteopathic Medicine 51.20 Pharmacy 51.21 Podiatry 51.22 Public Health 51.2306 Occupational Therapy 51.2308 Physical Therapy 51.2399 Rehab./Therapeutic Services 51.24 Veterinary Medicine 51.99 Health Professions and Related Services, Other Anesthesiology Cardiology Colon and Rectal Surgery Dental/Oral Surgery Dermatology Family Medicine Gastroenterology General Surgery Geriatric Medicine Hematology Internal Medicine Medical Programs, Other Neonatal-Perinatal Medicine Neurological Surgery Neurology Nuclear Medicine Nuclear Radiology Obstetrics and Gynecology Oncology Ophthalmology Orthopedics/Orthopedic Surgery Otorhinolaryngology Pediatrics Pharmacology Physical and Rehabilitative Medicine Plastic Surgery Preventive Medicine Psychiatry Thoracic Surgery Urology (exclude all residency programs)
PSYCHOLOGY	42.01 Psychology, General 42.02 Clinical Psychology 42.17 School Psychology 51.2301 Art Therapy (also animal behavior, educational, experimental, human development and personality, social)
SOCIAL SCIENCES **Economics**	01.0103 Agricultural Economics 45.06 Economics 52.06 Business/Managerial Econ. (also applied, development, econometrics, industrial, international, labor, public finance and fiscal policy, quantitative, resource)
Political Science	44.04 Public Administration 44.05 Public Policy Analysis 44.99 Public Admin. and Services, Other 45.09 International Relations and Affairs 45.10 Political Science and Government (also comparative government, legal systems, political theory, regional studies)
Sociology	45.02 Anthropology (Social and Cultural only) 45.05 Demography and Population Studies 45.11 Sociology (also comparative and historical, complex organizations, cultural and social structure, group interactions, social problems and welfare theory)
Other	04.03 City/Urban, Community, and Regional Planning 05 Area and Ethnic Studies 16.0102 Linguistics 43.01 Crim'l. Justice & Corrections 44.02 Community Services 45.01 Social Sciences, General 45.03 Archaeology 45.07 Geography 45.12 Urban Studies/Affairs 45.99 Social Sciences, Other (also history of science, socioeconomic geography)
OTHER SCIENCES, n.e.c.	(used when the multidisciplinary and interdisciplinary aspects make the classification under one primary field impossible)

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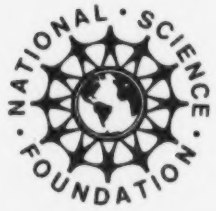

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